

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/ 13924

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.<sup>7</sup> C07C43/192, 43/196, 43/225, 43/23, 43/172, C08F16/12, G03F7/039

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.<sup>7</sup> C07C43/192, 43/196, 43/225, 43/23, 43/172, C08F16/12, G03F7/039Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Japanese Utility Model Gazette 1926-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2003, Japanese Registered Utility Model Gazette 1994-2003, Japanese Gazette Containing the Utility Model 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAPLUS (STN), CAOLD (STN), REGISTRY (STN), WPI (DIALOG)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	WO 02/36646 A1 (KABUSHIKI KAISHA TOSHIBA), 2002.05.10, CLAIMS, p.227-232 (x112, x115, x116, x117) & JP 2002-201219 A	1, 2, 10, 11 3-9, 12-18
X A	EP 536690 A1 (FUJI PHOTO FILM CO., LTD.), 1993.04.14, p.2, p.5 (a-8), p.12 (VI-22) & US 5364738 A & JP 5-100428 A & JP 5-100429 A	1, 2, 10, 11 3-9, 12-18
X A	MCCLELLAND R. et al., 'Mechanism of Hydrolysis of Aryl Vinyl Selenides', J. Org. Chem., 1980, Vol.45, p.187-189 (Table II)	1, 2, 5, 9, 10 3, 4, 6-8, 11-18

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

23.01.2004

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10.2.2004

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 3371064 A (THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE NAVY), 1968.02.27, CLAIM 1, COLUMN 11 and 12 (FAMILY:NONE)	1,2,5,9,10 3,4,6-8, 11-18
X A	EIBLER E. et al., 'Polyhalogenated Cyclopentadienes in [4+2] Cycloadditions', Liebigs Ann./Recueil, 1997, p.2451-2469	1,2,5,9,10 3,4,6-8, 11-18
X A	US 3752789 A (E.I. DU PONT DE NEMOURS AND COMPANY), 1973.08.14, CLAIMS, EXAMPLE 1 & JP 52-43864 B1	1,2,10 3-9,11-18
X A	US 3529003 A (THE DOW CHEMICAL COMPANY), 1970.09.15, CLAIMS (FAMILY:NONE)	1,10 2-9,11-18
X A	US 3488335 A (E.I. DU PONT DE NEMOURS AND COMPANY), 1970.01.06, CLAIMS (FAMILY:NONE)	1,10 2-9,11-18
X A	PLEVEY R.G. et al., 'Polyfluorocycloalkenes. part XVII.', J. Fluorine Chem., 1984, Vol.26, p.515-531	1,10 2-9,11-18
X A	WO 95/20021 A1 (CHISSO CORPORATION), 1995.07.27, EXAMPLE 8 (261,284,292,307,315,330,338) & EP 742275 A1 & JP 11-35500 A & US 5779936 A	1,2 3-18
EX EA	JP 2003-327686 A (JSR LTD.), 2003.11.19, CLAIMS, EXAMPLES (FAMILY:NONE)	1,2,10,11 3-9,12-18
EX EA	JP 2003-316004 A (FUJI PHOTO FILM CO., LTD.), 2003.11.06, CLAIMS, p.11 (I-7, I-8) (FAMILY:NONE)	1,2,10,11 3-9,12-18

INTERNATIONAL SEARCH REPORT  
Information on patent family members

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The term 'an organic group' used in Claim 1 renders the definition of the subject matter of said unclear and the claim 1 is not supported sufficiently by the description as required by Article 6 PCT.  
Therefore the search has been limited to the fluorine-containing vinyl ethers that are described in claim 2.